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LD 423

Synonym: 1,2,3,8-tetrahydro-1,2,3,3,5-pentamethyl-7H-pyrrolo[3,2-g]quinolin-7-one

Catalog No.: 04230

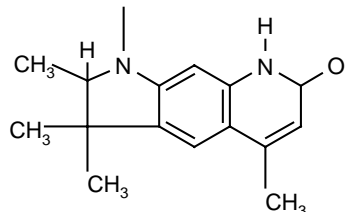
CAS No.: 58336-37-1

MW: 256.34

Chemical Formula: C₁₆H₂₀N₂O

Appearance: Pale white crystals

Structure:



Lasing Wavelength

Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	FI λ -max
402	395-420	FL ³	DMF		365 ^e	413 ^e
423	-419-427-	FL ⁸	Ethanol			
425	410-442	FL ⁶⁹	Methanol	6 x 10 ⁻⁵		
426	415-447	FL ³	Methanol	2 x 10 ⁻⁴		
415	399-433	XeCl(308) ¹¹⁴	Methanol			
423	408-448	N ₂ (337) ¹⁰	Ethanol	3 x 10 ⁻³		
424	415-434	N ₂ (337) ⁹	Ethanol	5 x 10 ⁻³		

e = ethanol

REFERENCES:

- Phase-R Corporation, Box G-2 Old Bay Rd., New Durham, NH 03855
- Near-Ultraviolet Lasing Dyes, Part 1: Search for New Dyes and Summation of Results, P.R. Hammond, A.N. Fletcher, R.A. Henry, R.L. Atkins and D.W. Moore; and Near-Ultraviolet Lasing Dyes, Part 2: Effects of Coaxial Flashlamp Excitation, A.N. Fletcher, *NWC TP 5768* (1975); Laser Dye Stability, Part 3: Bicyclic Dyes in Ethanol, A.N. Fletcher, *Appl. Phys.*, 14, 295 (1977); Laser Dye Stability, Part 5: Effect of Chemical Substituents of Bicyclic Dyes Upon Photodegradation Parameters, A.N. Fletcher and D.E. Bliss, *Appl. Phys.*, 16, 289 (1978)
- A. Williamson, private commun., 1977
- C. Kittrell, private commun., 1977
- Candela Laser Corporation, 530 Boston Post Road, Wayland, MA 01778-1833
- Optimization of Spectral Coverage in an Eight-Cell Oscillator-Amplifier Dye Laser Pumped at 308nm, F. Bos, *Appl. Optics*, 20, 3553 (1981)

For a current list of biology, biological stain, or biochemistry references for LD 423 from PubMed, click on the following link:

[LD 423](#) (zero references in PubMed as of May 2006)